PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

PCT

HP CENTRE DE COMPETENCES FRANCE Attn. Lloyd, Richard Graham

Attn. Lloyd, Richard Granar IP Section / Legal Dept 5, av. Raymond Chanas F-38053 Grenoble Cedex 09 NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING 何可吸過減, OR THE DECLARATION

Received by:

2 3 NOV. 2004

(PCT Rule 44.1)

Date of mailing (day/month/year)

22/11/2004

Applicant's or agent's file reference

200316513-2

FOR FURTHER ACTION

See paragraphs 1 and 4 below

International application No.

PCT/EP2004/051462

international filing date (day/month/year)

12/07/2004

Applicant

FRANCE

To:

HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.

1. X

The applicant is hereby notified that the International search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

Filing of amendments and statement under Article 19:

The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):

When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the international Search Report; however, for more details, see the notes on the accompanying sheet.

Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Fascimile No.: (41–22) 740.14.35

For more detailed instructions, see the notes on the accompanying sheet.

2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the international Searching Authority are transmitted herewith.

3. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.

no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. Reminders

Shortly after the expiration of **18 months** from the priority date, the international application will be published by the international Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the international Bureau as provided in Rules 90*bis*.1 and 90*bis*.3, respectively, before the completion of the technical preparations for international publication.

The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

Within 19 months from the priority date, but only in respect of some designated Offices, a demand for International preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.

Name and malling address of the International Searching Authority

European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Authorized officer

Stylianos Vasilakis

Form PCT/ISA/220 (January 2004)

(See notes on accompanying sheet)

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international politication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been its filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement short must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the interestional application and the amended claims, it should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

Notes to Form PCT/ISA/220 (first sheet) (January 1994)

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples likustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 roplaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims):
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added," or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 48.4)

The amendments may be accompanied by a utatement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not ruplace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

Notes to Form PCT/ISA/220 (second sheet) (January 1994)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER ACTION	see Form PCT/ISA/220 s well as, where applicable, Item 5 below.					
International application No.	International filing date (day/month/year	(Earliest) Priority Date (day/month/year)					
PCT/EP2004/051462	12/07/2004	30/10/2003					
Applicant HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.							
This International Search Report has been prepared by this international Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the international Bureau. This International Search Report consists of a total of sheets. It is also accompanied by a copy of each prior art document cited in this report.							
1. Basis of the report a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. The international search was carried out on the basis of a translation of the international application furnished to							
this Authority (Ru		losed in the international application, see Box No. I.					
2. Certain claims were fou	2. Certain claims were found unsearchable (See Box II).						
3. Unity of invention is lac	cking (see Box III).						
4. With regard to the title, X the text is approved as submitted by the applicant. the text has been established by this Authority to read as follows:							
5. With regard to the abstract,	5. With regard to the abstract,						
	ubmitted by the applicant.						
the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.							
6. With regards to the drawings,							
a. the figure of the drawings to be published with the abstract is Figure No							
X as suggested by	the applicant.						
as selected by the	nis Authority, because the applicant failed	to suggest a figure.					
as selected by th	als Authority, because this figure better ch	aracterizes the invention.					
b. none of the figures is to be published with the abstract.							

Form PCT/ISA/210 (first sheet) (January 2004)

INTERNATIONAL SEARCH REPORT

International Application No PCT/EP2004/051462

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H04L29/06							
According to	According to International Patent Classification (IPC) or to both national classification and IPC						
	SEARCHED						
IPC 7	cumentation searched (classification system followed by classification HO4L	n symbols)					
Documentat	Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched						
Electronic d	ata base consulted during the international search (name of data bas	e and, where practical, search terms used)				
EPO-Internal, PAJ, INSPEC							
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT						
Category *	Citation of document, with indication, where appropriate, of the rele	vant passages	Relevant to claim No.				
х	US 6 195 682 B1 (HO RANDALL S ET	AL)	1-3,5-14				
Y	27 February 2001 (2001-02-27) abstract		4				
	column 2, line 8 - line 19 column 3, line 1 - line 46						
Y	WO 99/18534 A (WEB BALANCE INC) 15 April 1999 (1999-04-15)		4				
A	page 4, line 1 - line 15 page 6, line 23 - line 31		1-3,5-14				
A	US 2002/133611 A1 (MULLER SOPHIE 19 September 2002 (2002-09-19) paragraphs '0041! - '0056!	ET AL)	1-14				
A	US 2003/110257 A1 (HYUN WOOK ET 12 June 2003 (2003-06-12) the whole document	AL)	1-14				
Further documents are listed in the continuation of box C. Patent family members are listed in annex.							
*Special categories of cited documents: "T" later document published after the International filing date or priority date and not in conflict with the application but							
The document defining the general state of the an which is not considered to be of particular relevance invention The general state of the an which is not cited to understand the principle or theory underlying the invention The general state of the an which is not cited to understand the principle or theory underlying the invention The general state of the an which is not cited to understand the principle or theory underlying the invention The general state of the an which is not cited to understand the principle or theory underlying the invention The general state of the an which is not cited to understand the principle or theory underlying the invention.							
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered.							
Cannot be considered to involve an inventive step when the considered to involve an inventive step when the considered to involve an inventive step when the document is combined with one or more other such document is combined with one or more other such document is combination being obvious to a person skilled in the art.							
later than the priority date claimed "&" document member of the same patent family							
Date of the actual completion of the international search Date of malling of the international search report 15 November 2004 22/11/2004							
	mailing address of the ISA	Authorized officer					
	European Patent Office, P.B. 5818 Patentiaan 2 NL – 2280 HV Rijswijk						
}	Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Perez Perez, J					

1

INTERNATIONAL SEARCH REPORT

information on patent family members

international Application No
PCT/EP2004/051462

Patent document cited in search report		Publication date	Patent family member(s)			Publication date	
US 6195682	B1	27-02-2001	NONE				
WO 9918534	Α	15-04-1999	US	6128279 A		03-10-2000	
			AU	1074099 A		27-04-1999	
			CA	2306260 A1	1	15-04-1999	
			ΕP	1044545 A2	2	18-10-2000	
			JP	2002510077 T		02-04-2002	
			WO	9918534 A2	2	15-04-1999	
			US	2003069968 A1	l	10-04-2003	
US 2002133611	A1	19-09-2002	NONE				
US 2003110257	A1	12-06-2003	KR	2003047543 A		18-06-2003	
US 2003110257	A1	12-06-2003	KR	2003047543 A		18-06	

PATENT COOPERATION TREATY

From INTE	the RNATIONAL SEARCHING AUTHO	DRITY				
To:			PCT			
	see form PCT/ISA/220		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43 <i>bis</i> .1)			
			Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet)			
	cant's or agent's file reference form PCT/ISA/220		FOR FURTHER ACTION See paragraph 2 below			
	national application No. FÆP2004/051462	International filing date (4	day/month/year)	Priority date (day/month/year) 30.10.2003		
	national Patent Classification (IPC) or LL29/06	both national classification	and IPC	(
Appl HE\	icant NLETT-PACKARD DEVELOP!	MENT COMPANY, L.	P.			
1.	This opinion contains indication	ons relating to the foll	owing items:			
	Box No. I Basis of the op	inion				
	☐ Box No. II Priority		ard to novelty, inventive step and industrial applicability			
	☐ Box No. III Non-establishr	nent of opinion with reg				
☐ Box No. IV Lack of unity of invention						
Box No. V Reasoned statement under Rule 43bis applicability; citations and explanations			s.1(a)(i) with regard to s supporting such state	novelty, inventive step or industrial ement		
☐ Box No. VI Certain documents cited						
☐ Box No. VII Certain defects in the international app			olication			
	☐ Box No. VIII Certain observ	ations on the internation	nal application			
2.	FURTHER ACTION					
If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.						
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.						
For further options, see Form PCT/ISA/220.						
3. For further details, see notes to Form PCT/ISA/220.						
Nam	e and mailing address of the ISA:		Authorized Officer			

Name and mailing address of the ISA:



European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016

Perez Perez, J

Telephone No. +31 70 340-3774



WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2004/051462

_	Box	No. I Basis of the opinion				
1.	With regard to the language, this opinion has been established on the basis of the international application in the language in which it was field, unless otherwise indicated under this item.					
	li	This opinion has been established on the basis of a translation from the original language into the following anguage , which is the language of a translation furnished for the purposes of international search under Rules 12.3 and 23.1(b)).				
2.	. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:					
	a. type of material:					
☐ a sequence listing						
	☐ table(s) related to the sequence listing					
b. format of material:						
	☐ in written format					
	☐ in computer readable form					
c. time of filing/furnishing:						
□ contained in the international application as filed.						
		filed together with the international application in computer readable form.				
		furnished subsequently to this Authority for the purposes of search.				
3.	1	n addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.				
4.	. Additional comments:					

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2004/051462

	Box No. II Priority							
1.	☐ The following document has not been furnished:							
		translation of the	earlier appl	ication who	ose priority has been claimed (Rule 43bis.1 and 66.7(b)).			
	Consequently it has not been possible to consider the validity of the priority claim. This opinion has nevertheless been established on the assumption that the relevant date is the claimed priority date.							
2.	This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43 <i>bis</i> .1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.							
3.	Additional observations, if necessary:							
	Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
1.	Statemen	t						
	Novelty (N	N)	Yes:	Claims	4			
			No:	Claims	1-3,5-14			
	Inventive	step (IS)	Yes:	Claims				
			No:	Claims	1-14			
	Industrial	applicability (IA)	Yes:	Claims	1-14			
			No:	Claims				

2. Citations and explanations

see separate sheet

Re Item V.

The following documents are referred to in this communication:

D1: US 6 195 682 B1 (HO RANDALL S ET AL) 27 February 2001 (2001-02-27)

D2: WO 99/18534 A (WEB BALANCE INC) 15 April 1999 (1999-04-15)

D3: US 2003/110257 A1 (HYUN WOOK ET AL) 12 June 2003 (2003-06-12)

2 INDEPENDENT CLAIMS 1 AND 7

The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 1 and 7 is not new in the sense of Article 33(2) PCT.

2.1 Independent claim 1

Document D1 discloses (the references in parenthesis applying to this document):

A method of routing a message, conveyed in stream through a point-to-point connection to a load-balancing element, to one of a plurality of available processing systems each connected to the load-balancing element by separate point-to-point connections comprising at the load-balancing element (column 1, lines 13-40): extracting the message from the stream;

detecting in the extracted message the presence of an identifier identifying one of the available processing systems;

and where the presence of the identifier is detected, forwarding the message to the processing system identified thereby via the appropriate connection;

otherwise determining a destination processing system for processing the message (column 5, lines 7-21);

inserting into the message an identifier identifying the determined destination processing system; and

forwarding the message to the processing system via the appropriate connection (column 4, line 66 - column 5, line 6).

2.2 Independent claim 7

The same reasoning applies to claim 7, since the subject-matter of the load-balancing

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/EP2004/051462

element of claim 7 fully corresponds to the subject-matter of method claim 1.

4 DEPENDENT CLAIMS 2-6,8-14

Dependent claims 2-6, 8-14 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step (Article 33(2) and (3) PCT).

Namely document D1 shows the use of a message identifier for identifying related messages and forwarding the messages to the processing server identified by said message identifier (see claim 3 of D1).

Furthermore, document D1 discloses the selection of a processing server depending on the load of the plural available processing servers (see column 2, lines 8-19 of D1)

Furthermore, document D2 suggest the removal of entries of the database after a predetermined amount of time (see page 4, lines 1-15 of D2).

Furthermore, document D3 shows the selection of a least loaded SIP server among a plurality of available SIP servers.